

# ELECTRICAL TECHNOLOGIES

## Evening Program Options Available

The Electrical Technologies Certificate program is designed to upgrade skills or prepare the student with entry-level knowledge and skills in electronic theory and circuitry. The student will be trained in using equipment essential for employment in communication, industrial electronics, radio/television, and other electronic occupations. Completion of this certificate can prepare students for industry-wide certification. The Electrical Technologies Certificate can also be used toward an Associate of Applied Science in Technology Degree.

## Program Outcomes

1. Understand basic electrical circuits.
2. Understand AC and DC circuitry by designing, drawing, building, and troubleshooting these circuits.
3. Learn to reference the National Electric Code for electrical questions.
4. Understand motor controls by designing, drawing, building, and troubleshooting these circuits.

## Requirements

Code	Title	Credits
<b>Required Coursework</b>		<b>31.00</b>
ELEC-110	BASIC ELECTRICITY	
ELEC-111	INTRODUCTION TO AC/DC CIRCUITS <sup>1</sup>	
ELEC-116	RESIDENTIAL TECHNOLOGY <sup>1</sup>	
ELEC-117	INDUSTRIAL/COMMERCIAL ELECTRICAL WIRING <sup>1</sup>	
ELEC-119	INTRO TO THE NATIONAL ELECTRICAL CODE <sup>1</sup>	
ELEC-120	ELECTRICAL MOTOR CONTROLS I <sup>1</sup>	
ELEC-122	INTRODUCTION TO MOTORS AND TRANSFORMERS <sup>1</sup>	
MATH-109	MATH FOR TECHNICIANS I <sup>1</sup>	
	or MATH-151 COLLEGE ALGEBRA	
<b>Total Credits</b>		<b>31.00</b>

<sup>1</sup> Course has prerequisite(s)

Tuition is calculated by contact hours per semester.

Current/Updated: 05/14/2020

Course	Title	Credits
<b>Fall 1</b>		
ELEC-110	BASIC ELECTRICITY	4.00
ELEC-116	RESIDENTIAL TECHNOLOGY	4.00
ELEC-119	INTRO TO THE NATIONAL ELECTRICAL CODE	4.00
MATHEMATICS		3.00
<b>Credits</b>		<b>15.00</b>
<b>Winter 1</b>		
ELEC-111	INTRODUCTION TO AC/DC CIRCUITS	4.00
ELEC-117	INDUSTRIAL/COMMERCIAL ELECTRICAL WIRING	4.00
ELEC-120	ELECTRICAL MOTOR CONTROLS I	4.00
<b>Credits</b>		<b>12.00</b>
<b>Summer 1</b>		
ELEC-122	INTRODUCTION TO MOTORS AND TRANSFORMERS	4.00
<b>Credits</b>		<b>4.00</b>
<b>Total Credits</b>		<b>31.00</b>